

FIELD EMISSION DISPLAY AND METHOD OF MANUFACTURE

Abstract of the Disclosure

5       A field emission display (30) having an anode plate (10) that has phosphor channels (13, 14, 15). The phosphor channels (13, 14, 15) are formed by depositing a first layer of photosensitive film (58) on a substrate (11). Stripes are patterned into the first layer of photosensitive film (58) using ultraviolet light. A second layer of photosensitive film (59) is formed on the first layer of photosensitive film (58). Stripes are patterned into the second 10 layer of photosensitive film (59) using ultraviolet light. The stripes in the second layer of photosensitive film (58) are substantially perpendicular to the first layer of photosensitive film (59). Both layers of photosensitive film are developed to form channel structures. Phosphor is formed in the channel structures to form the phosphor channels (13, 14, 15). The anode plate (10) is coupled to a cathode plate (31) to form the field emission display 15 (30).